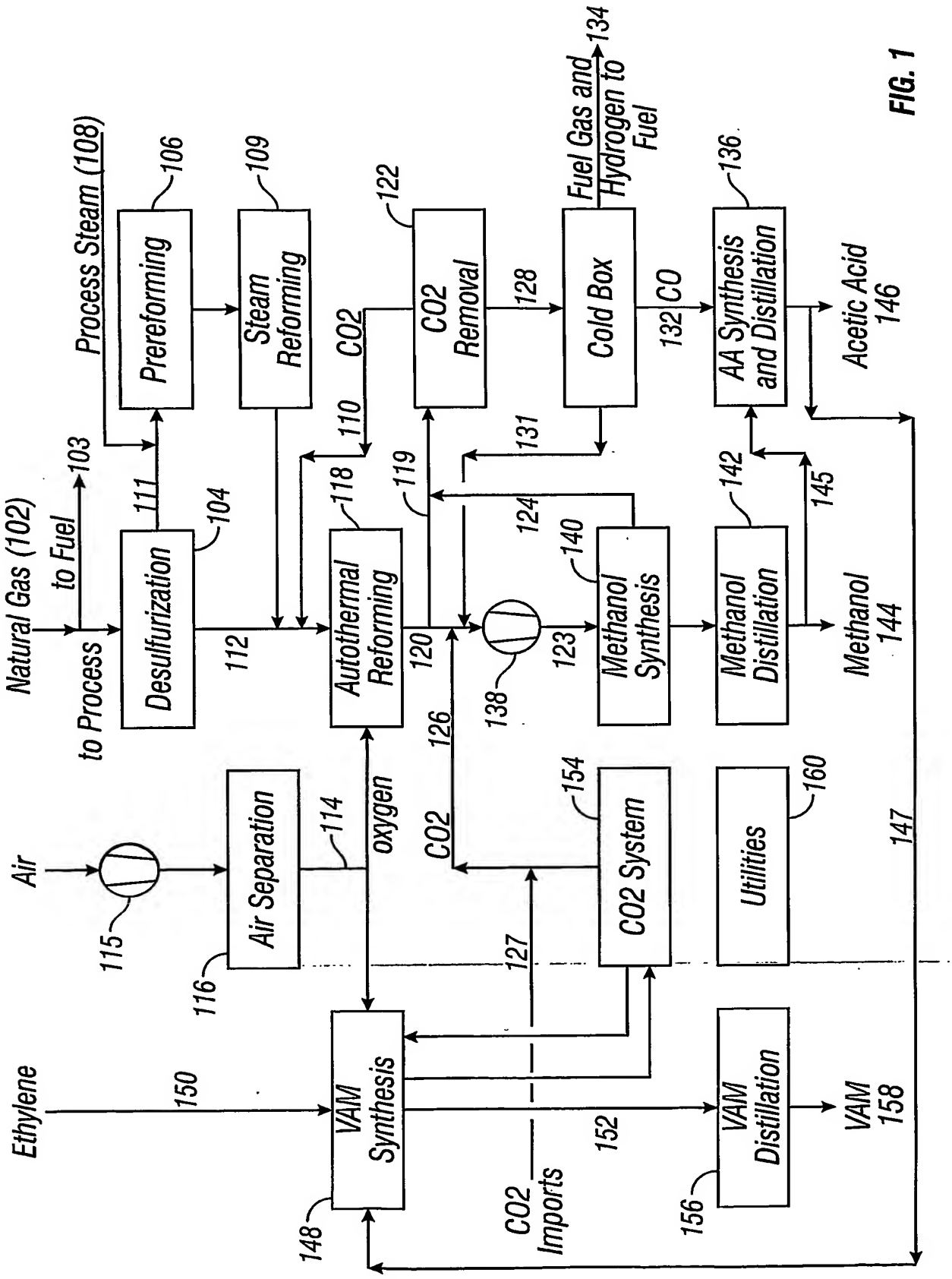
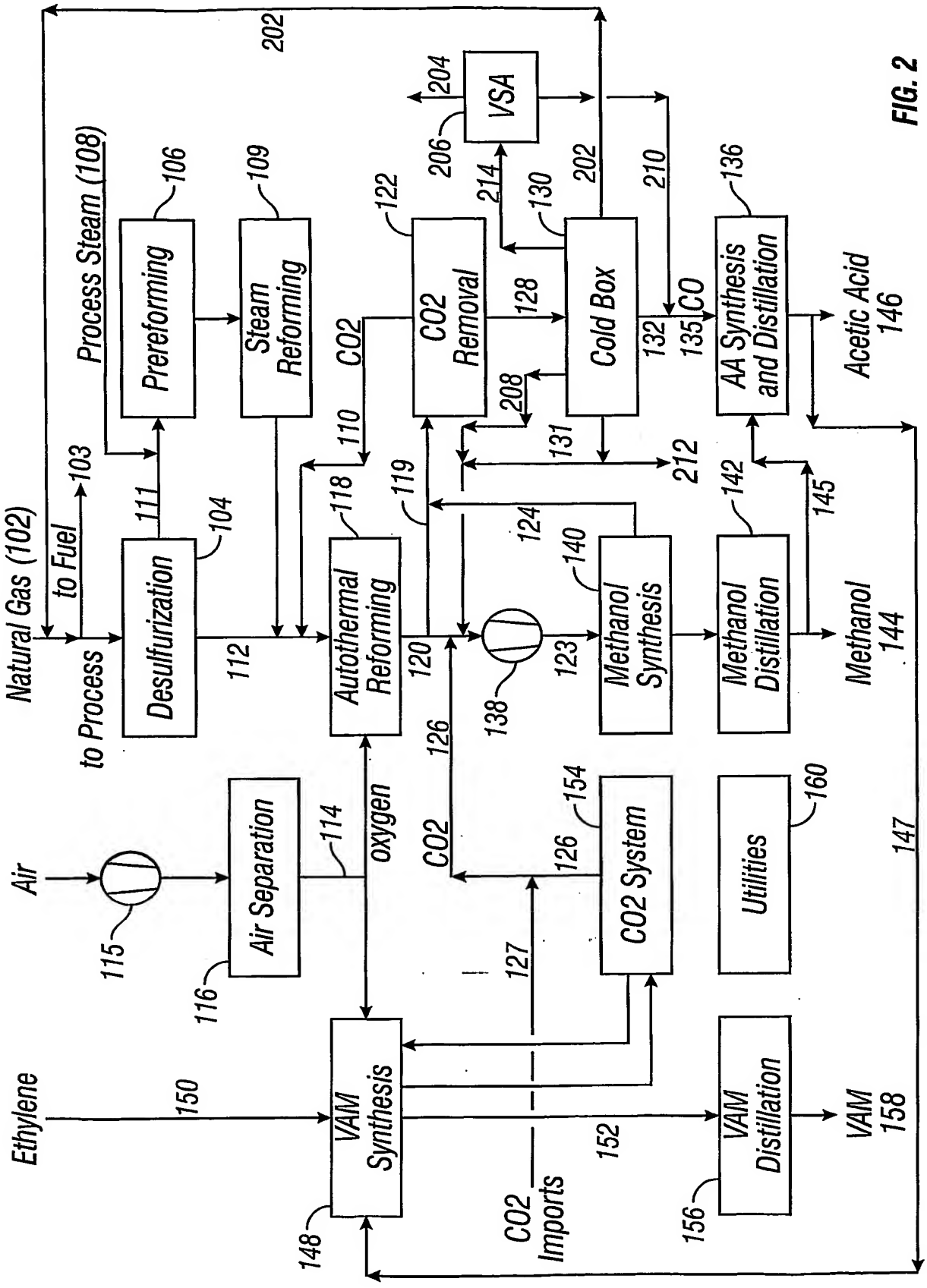

Natural Gas (102)
to Process
to Fuel
103
Process Steam (108)
Air
115
Ethylene
150
Desulfurization
104
111
112
Prereforming
106
Steam Reforming
109
Air Separation
116
114
oxygen
Autothermal Reforming
118
120
CO2
110
CO2 Removal
122
119
124
126
CO2
127
138
123
Methanol Synthesis
140
131
Cold Box
128
Fuel Gas and Hydrogen to Fuel
134
CO
132
AA Synthesis and Distillation
136
Acetic Acid
146
142
145
Methanol Distillation
Methanol
144
147
CO2 System
154
Utilities
160
VAM Synthesis
148
CO2 Imports
152
VAM Distillation
156
VAM
158

FIG. 1


Natural Gas (102)
to Fuel
103
to Process
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Process Steam (108)
Prereforming
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Steam Reforming
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Autothermal Reforming
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CO2
CO2 Removal
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Cold Box
130
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212
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VSA
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214
208
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Air
115
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oxygen
138
126
CO2
154
CO2 System
127
Utilities
160
Ethylene
150
VAM Synthesis
148
152
VAM Distillation
156
VAM
158
CO2 Imports

FIG. 2